



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

91761
Btw

In re patent application of:

Emmanouil Domazakis

Serial No. 10/031,089

Filing Date: January 15, 2002

METHOD OF PRODUCTION OF A
MEAT PRODUCT CONTAINING
OLIVE OIL

) Before the Examiner
) Arthur L. Corbin

) Group Art Unit 1761

) October 6, 2004

TRANSMITTAL OF SECOND PRIORITY DOCUMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant encloses herewith a certified copy of the second priority document, which is International Patent Application No. PCT/GR01/00025 filed May 29, 2001.

Respectfully submitted,

By:

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October 6, 2004.

CLIFFORD W. BROWNING
Name of Registered Representative

Signature

October 6, 2004
Date of Signature

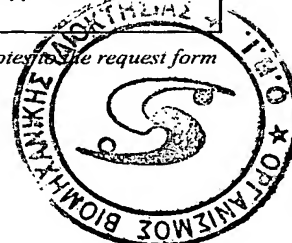
PCT
REQUEST



The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiver - Office use only	
PCT /GR01/00025	
International Application No.	
International Filing Date 29.05.2001	
PCT INTERNATIONAL APPLICATION	
Name of receiving Office and "PCT International Application"	
Applicant's or agent's file reference (if desired) (12 characters maximum)	

Box No. I TITLE OF INVENTION Method of production of goods based on meat with direct embodiment of olive oil and maximum possible substitution of animal fat	
Box No. II APPLICANT <input type="checkbox"/> This person is also inventor	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	
"CRETA FARM ANONIMOS VIOMICHANIKI & EMPORIKI ETAIREIA" Prinos (Latzimas locality), Municipality of Arkadi 741.00 Rethymnon Greece	
Telephone No. 0030-831-58026	
Facsimile No. 0030-831-58036	
Teleprinter No.	
Applicant's registration No. with the Office	
State (that is, country) of nationality: GR	State (that is, country) of residence: GR
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	
Domazakis Emmanouil 5, Moatsou Str. 741.00 Rethymnon Greece	
This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)	
Applicant's registration No. with the Office	
State (that is, country) of nationality: GR	State (that is, country) of residence: GR
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	
Tsirimonakis Matthew Attorney at law 53, Stournari Str. 104.32 Athens Greece	
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Facsimile No. 0030-1-5243277	
Teleprinter No.	
Agent's registration No. with the Office	
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	



Box No. V DESIGNATION OF STATES

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent

- ☐ **AP ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SE Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
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- ☒ **EP European Patent:** AT Austria, BE Belgium, CH & LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☐ **OA OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | | |
|---|--|---|
| <input type="checkbox"/> AE United Arab Emirates | <input checked="" type="checkbox"/> GE Georgia | <input type="checkbox"/> MW Malawi |
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| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> LV Latvia | <input checked="" type="checkbox"/> UA Ukraine |
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| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia | <input checked="" type="checkbox"/> YU Yugoslavia |
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| <input type="checkbox"/> GD Grenada | | <input type="checkbox"/> ZW Zimbabwe |

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Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)



Box No. VI PRIORITY CLAIM				
The priority of the following earlier application(s) is hereby claimed:				
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application:* regional Office	international application: receiving Office
item (1) 19 February 2001 (19.02.01)	20010100089	GR		
item (2)				
item (3)				
item (4)				
item (5)				
<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.				
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:				
<input type="checkbox"/> all items <input checked="" type="checkbox"/> item (1) <input type="checkbox"/> item (2) <input type="checkbox"/> item (3) <input type="checkbox"/> item (4) <input type="checkbox"/> item (5) <input type="checkbox"/> other, see Supplemental Box				
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): . . .				
Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):				
ISA /				
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):				
Date (day/month/year)	Number	Country (or regional Office)		
Box No. VIII DECLARATIONS				
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):				Number of declarations
<input type="checkbox"/> Box No. VIII (i)	Declaration as to the identity of the inventor			:
<input type="checkbox"/> Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent			:
<input type="checkbox"/> Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application			:
<input checked="" type="checkbox"/> Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)			: 1
<input type="checkbox"/> Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty			:



Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

**Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))
for the purposes of the designation of the United States of America:**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/GR 01/00025 (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications: ... GR 20010100089, 19th of February 2001

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: Domazakis Emmanouil

Residence: Rethymnon - Greece

(city and either US state, if applicable, or country)

Mailing Address: 5, Moatsou Str

741.00 Rethymnon - Greece

Citizenship: Greek

Inventor's Signature:

(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)

Date: May 17, 2001

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name:

Residence:

(city and either US state, if applicable, or country)

Mailing Address:

Citizenship:

Inventor's Signature:

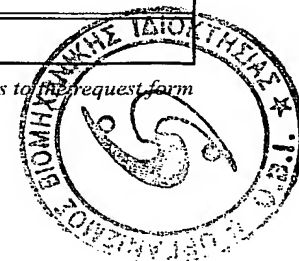
(if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)


Date:

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)



This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".



Box No. IX CHECK LIST; LANGUAGE OF FILING		
This international application contains:		This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):
(a) the following number of sheets in paper form:		
request (including declaration sheets)	5	1. <input type="checkbox"/> fee calculation sheet
description (excluding sequence listing part)	3	2. <input type="checkbox"/> original separate power of attorney
claims	1	3. <input checked="" type="checkbox"/> original general power of attorney
abstract	1	4. <input type="checkbox"/> copy of general power of attorney; reference number, if any:
drawings		5. <input type="checkbox"/> statement explaining lack of signature
Sub-total number of sheets	10	6. <input checked="" type="checkbox"/> priority document(s) identified in Box No. VI as item(s): 1
sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below)		7. <input type="checkbox"/> translation of international application into (language):
Total number of sheets	10	8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material
(b) sequence listing part of description filed in computer readable form		9. <input type="checkbox"/> sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other))
(i) <input type="checkbox"/> only (under Section 801(a)(i))		(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)
(ii) <input type="checkbox"/> in addition to being filed in paper form (under Section 801(a)(ii))		(ii) <input type="checkbox"/> (only where check-box (b)(i) or (b)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item 9(ii), in right column):		(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column
		10. <input type="checkbox"/> other (specify):
Figure of the drawings which should accompany the abstract:	Language of filing of the international application: English	
Part III SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE		
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).		
 Tsirimonakis Matthew - Agent		

For receiving Office use only	
1. Date of actual receipt of the purported international application: 29 May 2001 (29.05.2001)	2. Drawings: <input type="checkbox"/> received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	<input checked="" type="checkbox"/> not received:
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (if two or more are competent): ISA / E.P.O.	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid

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PCT

GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s) :

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

"CRETA FARM ANONIMOS VIOMICHANIKI & EMPORIKI ETAIREIA"

Prinos (Latzimas locality) Municipality of Arkadi

741.00 Rethymnon

Greece

hereby appoint(s) the following person as:

☒ agent

☐ common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Tsirimonakis Matthew

Attorney at law

53, Stournari Str.

104.32 Athens

Greece

to represent the undersigned before

☒ all the competent International Authorities

☐ the International Searching Authority only

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in connection with any and all international applications filed by the undersigned with the following Office

INDUSTRIAL PROPERTY ORGANISATION O.B.I. (Greece)

as receiving Office

and to make or receive payments on behalf of the undersigned.

Signature(s) (where there are several persons, each of them must sign; next to each signature, indicate the name of the person signing and the capacity in which the person signs, if such capacity is not obvious from reading this power):

Domazakis Emmanouil
President and Managing Director

Date: May 17, 2001



DESCRIPTION

Method of production of goods based on meat with direct embodiment of olive oil and maximum possible substitution of animal fat.

The present invention involves the production of goods based on meat with the main features:

1. use of olive oil instead of the usual practical addition of animal fat (fatty tissue)
2. use of thin bonny muscular tissue (meat)
3. addition of special subsidiary material
4. help of appropriate technological procedures and process that are developed aiming at:

- obtainment of solid emulsion – meat-paste of firm structure, apt to undergo any suitable caloric process, with further target the embodiment and firm connection of olive oil and after the coagulation of the proteins in the main system of the emulsion that consists of proteins / water / olive oil.
- the obtainment of the maximum possible maintenance of organic-receptive, scenic-chemical and nutrient features of the differentiation determinant **Olive Oil**.

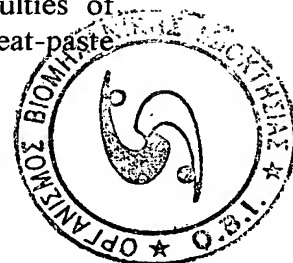
The cooked pork meats of contracted meat constitute a structural «emulsion» with the participation of essential ingredients of the proteins of the meat, water (of the meat + additional water) and additional fat (pork fatty tissue).

The stability of the «emulsion» depends mainly, among others, on the connective ability of used meat to retain water and to digest the additional fat.

Especially the muscular proteins and the salt-solvents (actinia, myosin and actomyosin) that represent the main part of (approximately 60%) of the muscular occiputs, contribute to the stability of the «emulsion», as in their hydrated condition function as a protective frame of the embodied fat, which is the non-continuing phase of the emulsion and the main factor of their non-stabilization.

The obtainment of stabilized embodiment of the fat (fat-orbs) in the «emulsion» constitutes a technological target of this invention that is faced with known combined techniques, which affect positively to this direction and include the adjustment of the parameters, such as the specific selection of meat, the regulation of PH of the meat, the quantity of additional salt, the use of subsidiary technology, the conditions of process – creation of meat-paste –, the timetable of caloric process and freezing of the final product, etc.

Nevertheless, the embodiment of olive oil in comparison with the classic addition of pork fat, as long as it is tested with classic techniques, runs into difficulties of instability or created non-stabilized tendencies, not only of the emulsion of meat-paste, but also of the final products that usually shows the appearance of «de-oil».



Consolidated well-known techniques of indirect embodiment of vegetable fats are known, that:

- include a procedure of preliminary caloric process of olive oil in levels of 100° C twice.

5 Especially in case of olive oil whose role in nutrition of humans is distinctive among seed-oils and other vegetable fats and also internationally renowned for its beneficial features of its vegetable ingredients (reference to Omega fat acids and their protective role, low cholesterol, toko-phenols and poli-phenols and their role),

10 Therefore, it is thought to be essential,

On one hand the, its participation as an ingredient of substitution of animal fat in cooked pork meats (products of caloric process of contracted meat) to be achieved under especially protective conditions, so that the maximum possible transfer of its
15 characteristics on the hosting product could be secured.

On the other hand, with the process of embodiment to ensure the traditional technique of producing cooked pork meats, and scientific facts will systematically be taken into consideration based on the characteristics of proteins, fats and oils as well as the
20 potential of their in-between connection depended on these characteristics.

The fact that the stability of «emulsion meat» is affected by the following facts, must be taken into account:

- the source and the composition of the embodied fat
- its scenic-chemical characteristics, such as:
 - the profile of fat acids (kind and degree of satiation)
 - the SFI (Solid Fat Index)
 - the relation of PUFA, MUFA / SUFA in the applicable
30 temperatures in the different stages of production


It is obvious that from technological aspect the differences between porc fat and olive oil should be taken into consideration when creating a stable emulsion.

35 In the critical temperatures of production (0 – 4° C) up to 71 ° C) but also in the temperatures of freezing (after caloric process) in addition to the later maintenance (3 – 7° C) of the product, it' s SFI that has a very significant role.

In the case of olive oil its characteristics presuppose embodiment under specific conditions, that consist in:

- the creation of the maximum possible embodiment of oil with mechanical process (mixture, similitude of the participated ingredients).
- the estimation of the ideal quantitative relation between these ingredients so that the maximum possible soaking and maintenance of oil in the emulsion at the same
45 time with the maximum possible absorbance of additional water (relation fat / proteins, water of proteins).
- the creation of a stable «waterproof» protein complex round the fat-orbs, without the application of high temperatures for the transformation of the proteins, with the





application of mechanical process under selected conditions with the application of vacuum and temperature in the phase of mixture and degree of assimilation – with the maximum possible spreading and size of fat-orbs.

- 5 In the end, one significant aim is the insurance of a stable behaviour of the emulsion meat-paste in the phases of caloric process, the later freezing of the product, the behavior of the product in a possible cutting and packing in vacuum and during the maintenance in conditions of freezing.
- 10 The aim of the present invention is the production of goods based on meat of caloric process (products of cooked pork meat – sausages – salamis of contracted meat):
 - with direct in frost embodiment of olive oil and maximum possible substitution of animal fat
 - with the addition of combined subsidiary technology and
 - 15 • the application of special technological process

This aim is achieved with the mixture of meat of low fat-content in frost with olive oil in combination with the use of vegetable proteins, milk proteins, poli-phosphoric salts, water and salt.

20

In this way, the present invention offers pork meats with olive oil and a method for their production with in frost mixture of olive oil, non-fat meat and water.

- 25 Thin-chopped non-fat meat of temperature 0°C is mixed with H_2O of temperature -2°C in a machine of mixture with simultaneous addition of salt. Next, we insert poli-phosphoric salts, preservatives and spices. After all these are mixed we add gradually the vegetable proteins, the proteins of milk and starch. When the temperature of the mixture is 2°C we insert the olive oil. The mixture continues with simultaneous application of vacuum 960 mBAR for 3 min, aiming to deduct the closed in the
- 30 mixture oxygen in order to avoid oxidation. The mixture continues until the temperature is 4°C . The entire time of mixture is 15 min. And the absorbing power 26 KW. The mixture then goes to a filling machine where it is encased with simultaneous application of vacuum 1000 mBAR with absorbing power 7 KW and later on, it is pasteurized in 71°C . The entire time of caloric process depends on the diameter of the
- 35 product and ranges from 1 to 3 hours. After the pasteurization, the product is frozen in freezing chambers with temperature of -2°C up to 2°C .

- 40 The pork meats with olive oil that are produced according to this invention, have an excellent stability as far structure is concerned (compactness) due to the use of thin meat, application of low temperatures and their production in vacuum. The scenic-chemical features of olive oil, which these products consist, remain unchangeable, because of the low temperatures, which are enforced during the productive procedure.



CLAIMS

Method of production of goods based on meat with direct embodiment of olive oil and maximum possible substitution of animal fat.

1. Method of production of goods based on meat which is distinguished by the embodiment of olive oil in substitution of animal fat, instead of the traditional use of animal fat or the use of emulsion which consist of vegetable fat, water and milk proteins prepared in temperatures over 100 C° (in heat)
- 5 This method includes the following stages :
 - (a)Thin meat of temperature 0 C° is mixed with H2O of temperature -2 C°, salt, poli - phosphoric salts, preservatives, vegetable proteins, milk proteins and starch.
 - (b)Then, we insert the olive oil and continue the mixture with simultaneous application of vacuum for 3 min. The mixture stops when the temperature is 4 C° .
 - 10 (c)Then the mixture goes to filling machines where it is encased with simultaneous application of vacuum 1000 mBAR and later on it is pasteurized in 71 C° .
 - (d) After the pasteurization, the product freezes in freezing chambers up to 2 C° .
2. The whole time of the caloric process which is above mentioned (claim 1)
15 depends on the diameter of the final product and ranges from 1 to 3 hours.
3. The products based on meat, with embodiment of olive oil, which are produced according to the methods of claims (1) and (2).



S U M M A R Y

Method of production of goods based on meat with direct embodiment of olive oil and maximum possible substitution of animal fat.

Method of production of goods based on meat (products of cooked pork meats – sausages – salamis of contracted meat) with direct embodiment of olive oil and maximum possible substitution of animal fat, which includes the following stages: a) Mixture of thin meat with H₂O, salt, poli – phosphoric salts, preservatives, vegetable proteins, milk proteins and starch. b) Insertion of olive oil and continuation of mixture. c) The mixture is encased with simultaneous application of vacuum and pasteurization. d) Freeze of product.

Products based on meat with embodiment of olive oil, which are produced according to this method have an excellent stability as far structure is concerned (compactness) and the scenic-chemical features of olive oil which these products contain remain unchangeable.